

# **Keeping Warm with Agriculture – Grades 1-4**

## **First Grade**

### **Next Generation Science**

- 1.LS1.A Structure and Function: All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water and air. Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive and grow.
- 1.LS3.1 Inheritance and Variation of Traits: Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.
- 1.LS3.A Inheritance of Traits: Young animals are very much, but not exactly like, their parents. Plants also are very much, but not exactly, like their parents.
- 1.LS3.B Variation of Traits: Individuals of the same kind of plant or animal are recognizable as similar but can also vary in many ways.

### **Social Science**

- 1.EC.2 Economics and Financial Literacy: Describe the skills and knowledge required to produce certain goods and services.

### **ELA-Literature**

- K-12.L.R.4 Vocabulary Acquisition and Use: Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate.
- K-12.L.R.6 Vocabulary Acquisition and Use: Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.
- K-12.SL.2 Comprehension and Collaboration: Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
- 1.L.5.c Vocabulary Acquisition and Use: Identify real-life connections between words and their use (e.g., note places at home that are cozy).
- 1.R.F.2 Phonological Awareness: Demonstrate understanding of spoken words, syllables, and sounds (phonemes).
- 1.R.F.3 Phonics and Word Recognition: Know and apply grade-level phonics and word analysis skills in decoding words.
- 1.SL.1.1 Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.
- 1.SL.3 Comprehension and Collaboration: Ask and answer questions about what a speaker says in order to gather additional information or clarify something that is not understood.
- 1.W.1.8 With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question.

## Math

- MP.1 Make sense of problems and persevere in solving them.
  - MP.2 Reason abstractly and quantitatively.
  - MP.3 Construct viable arguments and critique the reasoning of others.
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## Second Grade

### Next Generation Science

- 2.ESS2.B Plate Tectonics and Large-Scale System Interactions: Maps show where things are located. One can map the shapes and kinds of land and water in any area.
- 2.PS1.B Chemical Reactions: Heating or cooling a substance may cause changes that can be observed. Sometimes these changes are reversible, and sometimes they are not.

### Social Science

- 2.G.3 Geography: Explain how people in your community use local and distant environments to meet their daily needs.

### ELA-Literature

- K-12.L.R.4 Vocabulary Acquisition and Use: Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate.
- K-12.L.R.6 Vocabulary Acquisition and Use: Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.
- K-12.SL.2 Comprehension and Collaboration: Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
- 2.L.1 Conventions of Standard English: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
- 2.L.3 Knowledge of Language: Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- 2.L.5.a Vocabulary Acquisition and Use: Identify real-life connections between words and their use (e.g., describe foods that are spicy or juicy).
- 2.L.6 Vocabulary Acquisition and Use: Use words and phrases acquired through conversations, reading and being read to, and responding to texts, including using adjectives and adverbs to describe (e.g., When other kids are happy that makes me happy).
- 2.R.F.3 Phonics and Word Recognition: Know and apply grade-level phonics and word analysis skills in decoding words.
- 2.R.I.3 Key Ideas and Details: Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text.

- 2.R.I.4 Craft and Structure: Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.
- 2.R.I.7 Integration of Knowledge and Ideas: Explain how specific images (e.g., a diagram showing how a machine works) contribute to and clarify a text.
- 2.SL.1 Comprehension and Collaboration: Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.
- 2.SL.1.a Comprehension and Collaboration: Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).
- 2.SL.1.b Comprehension and Collaboration: Build on others' talk in conversations by linking their comments to the remarks of others.
- 2.SL.1.c Comprehension and Collaboration: Ask for clarification and further explanation as needed about the topics and texts under discussion.
- 2.SL.2 Comprehension and Collaboration: Recount or describe key ideas or details from a text read aloud or information presented orally or through other media.
- 2.SL.3 Comprehension and Collaboration: Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.
- 2.SL.4 Presentation of Knowledge and Ideas: Tell a story or recount an experience with appropriate facts and relevant, descriptive details, speaking audibly in coherent sentences.
- 2.W.8 Research to Build and Present Knowledge: Recall information from experiences or gather information from provided sources to answer a question.

## **Math**

- MP.1 Make sense of problems and persevere in solving them.
- MP.2 Reason abstractly and quantitatively.
- MP.3 Construct viable arguments and critique the reasoning of others.

## **Physical Development and Health**

- 23B.C.4 Identify major nutrients and their food sources.
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## **Third Grade**

### **Next Generation Science**

- 3.ESS2.2 Earth's Systems: Obtain and combine information to describe climates in different regions of the world.
- 3.LS1.B Growth and Development of Organisms: Reproduction is essential to the continued existence of every kind of organism. Plants and animals have unique and diverse life cycles.
- 3.LS4.C Adaptation: For any particular environment, some kinds of organisms survive well, some survive less well, and some cannot survive at all.

## **Social Science**

- 3.EC.1 Economics and Financial Literacy: Compare the goods and services that people in the local community produce and those that are produced in other communities.
- 3.G.3 Geography: Show how consumption of products connects people to distant places.

## **ELA-Literature**

- K-12.L.R.4 Vocabulary Acquisition and Use: Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials.
- K-12.L.R.6 Vocabulary Acquisition and Use: Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.
- K-12.SL.2 Comprehension and Collaboration: Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
- 3.L.1 Conventions of Standard English: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
- 3.L.3 Knowledge of Language: Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- 3.L.5.b Vocabulary Acquisition and Use: Identify real-life connections between words and their use (e.g., describe people who are friendly or helpful).
- 3.SL.1 Comprehension and Collaboration: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.
- 3.SL.1.b Comprehension and Collaboration: Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).
- 3.SL.1.c Comprehension and Collaboration: Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.
- 3.SL.1.d Comprehension and Collaboration: Explain their own ideas and understanding in light of the discussion.
- 3.SL.3 Comprehension and Collaboration: Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.
- 3.R.I.3 Key Ideas and Details: Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.
- 3.R.I.4 Craft and Structure: Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.
- 3.R.I.7 Integration of Knowledge and Ideas: Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).
- 3.R.F.3 Phonics and Word Recognition: Know and apply grade-level phonics and word analysis skills in decoding words.
- 3.W.1.b Text Types and Purposes: Provide reasons that support the opinion.

## **Math**

- MP.1 Make sense of problems and persevere in solving them.
- MP.2 Reason abstractly and quantitatively.
- MP.3 Construct viable arguments and critique the reasoning of others.

## **Physical Development and Health**

- 23B.C.4 Identify major nutrients and their food sources.
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## **Fourth Grade**

### **Next Generation Science**

- 4.LS1.1 Structure and Processes: Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction. [Clarification Statement: Examples of structures could include thorns, stems, roots, colored petals, heart, stomach, lung, brain, and skin.]
- 4.LS1.A Structure and Function: Plants and animals have both internal and external structures that serve various functions in growth, survival, behavior, and reproduction.

### **Social Science**

- 4.EC.2 Economics and Financial Literacy: Describe how goods and services are produced using human, natural, and capital resources (e.g. tools and machines).
- 4.G.3 Geography: Describe some of the current movements of goods, people, jobs, or information to, from, or within Illinois, and explain reasons for the movements.

### **ELA-Literature**

- K-12.L.R.4 Vocabulary Acquisition and Use: Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate.
- K-12.L.R.6 Vocabulary Acquisition and Use: Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.
- K-12.SL.2 Comprehension and Collaboration: Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
- 4.L.1 Conventions of Standard English: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
- 4.L.3.a Knowledge of Language: Choose words and phrases to convey ideas precisely.
- 4.L.3 Knowledge of Language: Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- 4.R.F.3 Phonics and Word Recognition: Know and apply grade-level phonics and word analysis skills in decoding words.

- 4.R.I.3 Key Ideas and Details: Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.
- 4.R.I.4 Craft and Structure: Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.
- 4.R.I.7 Integration of Knowledge and Ideas: Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.
- 4.SL.1 Comprehension and Collaboration: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.
- 4.SL.1.b Comprehension and Collaboration: Follow agreed-upon rules for discussions and carry out assigned roles.
- 4.SL.1.c Comprehension and Collaboration: Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.
- 4.SL.1.d Comprehension and Collaboration: Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.
- 4.SL.2 Comprehension and Collaboration: Paraphrase portions of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.
- 4.W.1.b Text Types and Purposes: Provide reasons that are supported by facts and details.
- 4.W.2.d Text Types and Purposes: Use precise language and domain-specific vocabulary to inform about or explain the topic.
- 4.W.8 Research to Build and Present Knowledge: Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources.

### **Math**

- MP.1 Make sense of problems and persevere in solving them.
- MP.2 Reason abstractly and quantitatively.
- MP.3 Construct viable arguments and critique the reasoning of others.

### **Physical Development and Health**

- 23B.C.4 Identify major nutrients and their food sources.